

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DA	TE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/092,249	03/07/200	02	Gang Wu	4035-0147P	9274	
2292	7590 09	9/07/2004		EXAMI	EXAMINER	
BIRCH STEWART KOLASCH & BIRCH				HUANG, WEN WU		
PO BOX 74 FALLS CH	, JRCH, VA 220	40-0747		ART UNIT	PAPER NUMBER	
	·			2682	5	
				DATE MAILED: 09/07/2004	,	

Please find below and/or attached an Office communication concerning this application or proceeding.

2			
	Application No.	Applicant(s)	
	10/092,249	WU ET AL.	
Office Action Summary	Examiner	Art Unit	
	Wen Huang	2682	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence address -	-
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by star Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the statutory minimum of thi od will apply and will expire SIX (6) MO tute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communica BANDONED (35 U.S.C. § 133).	ition.
Status			
1) Responsive to communication(s) filed on			
,— ,	his action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice unde	·	·	s is
Disposition of Claims			
4) ⊠ Claim(s) 1 and 2 is/are pending in the application 4a) Of the above claim(s) is/are withd 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1 and 2 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and	lrawn from consideration.		
Application Papers			
9) The specification is objected to by the Exami			
10) The drawing(s) filed on is/are: a) a	, , , , ,	•	
Applicant may not request that any objection to the			47-1
Replacement drawing sheet(s) including the corr 11) The oath or declaration is objected to by the	,	• • •	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in <i>i</i> riority documents have beer eau (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892)		Summary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date #4. 	r—1	(s)/Mail Date Informal Patent Application (PTO-152) 	
S. Patent and Trademark Office	· · · · · · · · · · · · · · · · · · ·		

Art Unit: 2682

DETAILED ACTION

Priority

Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Japan on 09/07/2001. It is noted, however, that applicant has not filed a certified copy of the JAPAN 2001-317471 application as required by 35 U.S.C. 119(b).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Walsh et al ("Hybrid Networks – A Step Beyond 3G").

Regarding claim 1, Walsh et al teach a network system that seamlessly integrates wireless communication systems, such network system being characterized in that (see Walsh et al, abstract):

an architecture of the network system includes at least four building blocks including a mobile host, a wireless access network, a common core network, and an external network (see Walsh et al, fig. 6);

the building block of the external network has a correspondent node (see Walsh et al, fig. 6, component "CN");

Art Unit: 2682

the external network and the common core network are connected together via at least one gateway router (see Walsh et al, fig. 6, component "BG");

the building block of the common core network has two functional modules including a resource manager and a mobility manager (see Walsh et al, fig. 6, components "TC" and "MM");

the building block of the wireless access network internally comprises at least one set of base stations or access point interfaces and base stations or access point interfaces and network interfaces (see Walsh et al, fig. 6, components "Access System");

the base stations or the access point interfaces realize an access mechanism that enable access between the common core network and the base stations or access points (see Walsh et al, fig. 6, component "IU"); and

the network interface realizes an access mechanism that enables access between the base stations or access points and the mobile host (see Walsh et al, fig. 7, component "SM").

Regarding claim 2, Walsh et al further teach a seamless integrated network system for wireless communication systems according to claim 1, characterized in that (see Walsh et al, abstract):

the building block of said common core network has a basic access network (see Walsh et al, III.2.1, tenth paragraph, "selected access system");

Art Unit: 2682

the basic access network is composed of a network interface of base stations or access points, base stations or access points, and basic access components (see Walsh et al, fig. 6, component "Access System");

said mobile host is composed of at least a network interface, a network selector, a basic access component, and a local resource manager (see Walsh et al, fig. 7, component "RS");

it is inherent that a mobile host is composed of a locator in order to signal with Home Agent (see Walsh et al, III.2, last paragraph); and

the basic access component of the basic access network and the basic access component of the mobile host communicate with each other (see Walsh et al, fig. 7, components "SM" and "RS").

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

<u>http://www.ist-drive.org/papers.html</u> shows a collection of papers that are closely related to the invention.

Dillinger ("Advanced Spectrum Sharing Techniques") teaches the use of SDR in transceiver.

Wu et al ("Wireless Internet over Heterogeneous Wireless Networks") clearly teach the technology of the invention.

Xu et al, ("DRiVE-ing to the Internet: Dynamic Radio for IP Services in Vehicular Environments", IEEE, 2000) teach the basic of DriVE architecture.

Art Unit: 2682

Keller et al, ("Convergence of Cellular and Broadcast Networks from a Multi-Radio Perspective", IEEE, 2001) teach integrated mobile terminals with different radio technology.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wen Huang whose telephone number is (703) 305-6285. The examiner can normally be reached on 10am - 6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on (703) 308-6739. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

wwh 9,1,04

PRIMARY EXAMINER